

## UNITED STATES PATENT AND TRADEMARK OFFICE



APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
09/614,427		07/12/2000	Henry Schellhorn	250/271	2097		
23639	7590	12/16/2003		EXAM	EXAMINER		
		TCHEN LLP	SUBRAMANIAN, NARAYANSWAMY				
		DERO, SUITE 1800 CA 94111-4067		ART UNIT	ART UNIT PAPER NUMBER		
	,			3624			

DATE MAILED: 12/16/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	tion No.	Applicant(s)	
•		09/614,4	127	SCHELLHORN, HENRY	
v	Office Action Summary	Examine		Art Unit	
		Narayan	swamy Subramanian	3624	
	The MAILING DATE of this commu	inication appears on th	ne cover sheet with the	correspondence address	
Period fo		FOR REDLY IS SET	TO EVEIDE AMONTU	(C) EDOM	
THE - Exte after - If the - If NO - Failu - Any	ORTENED STATUTORY PERIOD MAILING DATE OF THIS COMMUN nsions of time may be available under the provision SIX (6) MONTHS from the mailing date of this con period for reply specified above is less than thirty openiod for reply is specified above, the maximum re to reply within the set or extended period for repeply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	NICATION.  ns of 37 CFR 1.136(a). In no endinunication.  (30) days, a reply within the structury period will apply and solvy will, by statute, cause the agents.	event, however, may a reply be ti atutory minimum of thirty (30) da will expire SIX (6) MONTHS fron oplication to become ABANDON!	mely filed  ys will be considered timely.  In the mailing date of this communication  ED (35 U.S.C. § 133).	i.
1)⊠	Responsive to communication(s) fi	led on <u>22 September</u>	<u>2003</u> .		
2a) <u></u>	This action is <b>FINAL</b> .	2b) ☐ This action is r	non-final.		
3)□	Since this application is in conditional closed in accordance with the practice.				
Disposit	ion of Claims				
4)⊠	Claim(s) 1-36 is/are pending in the	application.			
	4a) Of the above claim(s) is/	are withdrawn from c	onsideration.		
5)□	Claim(s) is/are allowed.			•	
6)□	Claim(s) is/are rejected.				
7)	Claim(s) is/are objected to.				
8)[	Claim(s) are subject to restr	riction and/or election	requirement.		
Applicat	ion Papers				
9)[	The specification is objected to by t	he Examiner.			
10)[	The drawing(s) filed on is/are	e: a)∏ accepted or b	o) objected to by the	Examiner.	
	Applicant may not request that any obj	jection to the drawing(s)	be held in abeyance. Se	ee 37 CFR 1.85(a).	
	Replacement drawing sheet(s) including	ng the correction is requ	ired if the drawing(s) is ol	bjected to. See 37 CFR 1.121(c	l).
11)	The oath or declaration is objected	to by the Examiner. N	lote the attached Office	e Action or form PTO-152.	
Priority (	ınder 35 U.S.C. §§ 119 and 120				
	Acknowledgment is made of a clair  All b) Some * c) None of:		ınder 35 U.S.C. § 119(	a)-(d) or (f).	
	1. Certified copies of the priorit			C. N.	
	<ul><li>2. Certified copies of the priorit</li><li>3. Copies of the certified copies application from the Internat</li></ul>	s of the priority docum ional Bureau (PCT Ru	nents have been receivule 17.2(a)).	red in this National Stage	
13)∐ <i>A</i> s	See the attached detailed Office act Acknowledgment is made of a claim ince a specific reference was includ 7 CFR 1.78.	for domestic priority	under 35 U.S.C. § 119(	(e) (to a provisional applicati	
	i) ☐ The translation of the foreign la	anguage provisional a	application has been re	ceived.	
	Acknowledgment is made of a claim eference was included in the first se				
Attachmen	t(s)				
2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review mation Disclosure Statement(s) (PTO-1449)			y (PTO-413) Paper No(s) Patent Application (PTO-152)	
-,		p-:(0) <u>-</u> .	<i>5,</i> <u> </u>		

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## **DETAILED ACTION**

## Requirement for Information

- 1. Applicant and the assignee of this application are required under 37 CFR 1.105 to provide the following information that the examiner has determined is reasonably necessary to the examination of this application.
- (1) A copy of any non-patent literature, published application, or patent (U.S. or foreign), by any of the inventors, or information that was used in the invention process, such as by designing around or providing a solution to accomplish an invention result. In response to this requirement, please provide the title, citation and copy of each publication that any of the applicants relied upon to develop the disclosed subject matter that describes the applicant's invention, particularly as to developing the features of calculating, for financial instruments, a set of financial outcomes using a subset of interest rate scenarios; interpolating, from the sets of financial outcomes, a first function that estimates the aggregate value of the portfolio when sampled at the payment times with an aggregate principal of the portfolio and a first interest rate scenario; providing a second function that estimates a value for a financial instrument from the portfolio when sampled at the payment times using a second interest rate scenario; using an interest rate scenario from the plurality of interest rate scenarios, calculating a value of the second function for each financial instrument in the portfolio and a value of the first function to estimate, respectively, a value for the portfolio and an aggregate value for the portfolio; and forming a control variate based upon the estimated value of the portfolio, the estimated aggregated value of the portfolio, and an expected value of the aggregate value of the portfolio.

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For each publication, please provide a concise explanation of the reliance placed on that publication in the development of the disclosed subject matter.

- (2) A working prototype of the invention that can be tested by the examiner. Is the invention currently available commercially? In response to this requirement, please provide the names of any products or services that have incorporated the claimed subject matter.
- (3) The trade names and providers of any products or services in competition with the invention.
  - (4) Identification of the true assignees of the current invention.
- 2. In responding to those requirements that require copies of documents, where the document is a bound text or a single article over 50 pages, the requirement may be met by providing copies of those pages that provide the particular subject matter indicated in the requirement, or where such subject matter is not indicated, the subject matter found in applicant's disclosure.

The fee and certification requirements of 37 CFR 1.97 are waived for those documents submitted in reply to this requirement. This waiver extends only to those documents within the scope of the requirement under 37 CFR 1.105 that are included in the applicant's first complete communication responding to this requirement. Any supplemental replies subsequent to the first communication responding to this requirement and any information disclosures beyond the scope of this requirement under 37 CFR 1.105 are subject to the fee and certification requirements of 37 CFR 1.97 where appropriate.

The applicant is reminded that the reply to this requirement must be made with candor and good faith under 37 CFR 1.56. Where the applicant does not have or cannot readily obtain an

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item of required information, a statement that the item is unknown or cannot be readily obtained will be accepted as a complete reply to the requirement for that item.

This requirement is subject to the provisions of 37 CFR 1.134, 1.135 and 1.136 and has a shortened statutory period of 2 months. EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR 1.136(a).

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Narayanswamy Subramanian whose telephone number is (703) 305-4878. The examiner can normally be reached Monday-Thursday from 8:30 AM to 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vincent Millin can be reached at (703) 308-1065. The fax number for Formal or Official faxes and Draft or Informal faxes to The Patent Office is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-1113.

N. Subramanian December 11, 2003

Richard Weisberger Primary Examiner